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JP59159243A2: METALLIC MOLD FOR CASTING AND ITS PRODUCTION

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Kind:

Inventor(s): **KUMAGAI YOUZOU**Applicant(s): **HITACHI LTD**
[News, Profiles, Stocks and More about this company](#)Issued/Filed Dates: **Sept. 8, 1984 / March 2, 1983**Application Number: **JP1983000032786**IPC Class: **B22C 1/12; B22C 9/06; B22D 17/22; C22C 9/00; C22F 1/08;**

Abstract: **Purpose:** To prevent deformation of a metallic mold for casting and to improve durability by using a copper alloy consisting of zirconium and titanium of limited components and a compd. of one thereof and copper for said metallic mold.

Constitution: A metallic mold is cast of a copper alloy contg. 0.01W3W% zirconium and 0.03W5W% titanium and a compd. of either one of zirconium and titanium and copper. The metallic mold having =100 Brinell hardness Hs at an ordinary temp. and =20% conductivity is then cast. The mold is subjected to a soln. heat treatment and an aging treatment in order to make the copper alloy into the texture in which the precipitation phase exists in dispersion. The reason for limiting the components of the zirconium and titanium lies in that if the zirconium is above the limited content, the conductivity decreases and hardness is not expected. If the titanium is above the limited content, embrittlement arises in the material and the conductivity decreases.

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Other Abstract Info: none

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